Study plan

Name of study plan: PL nav.prez.22/23 (pro program PL)

Faculty/Institute/Others: Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Air Traffic Control and Management Type of study: Follow-up master full-time Required credits: 120 Elective courses credits: 0 Sum of credits in the plan: 120 Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 104 The role of the block: Z

Code of the group: 1.S.NPPL 22/23 Name of the group: 1.sem.nav.prez.PL (od) 22/23 (program PL) Requirement credits in the group: In this group you have to gain 28 credits Requirement courses in the group: In this group you have to complete 7 courses Credits in the group: 28 Note on the group:

	group.					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11APAS	Applied Statistics Evženie Uglickich, Pavla Pecherková Pavla Pecherková	Z,ZK	4	2P+2C+12E	B Z	Z
11MMJ	Mathematical Models and their Applications Evženie Uglickich, Pavla Pecherková, Šárka Vorá ová, Ivan Nagy, Michal Matowicki Pavla Pecherková Evženie Uglickich (Gar.)	Z,ZK	4	2P+2C+12E	B Z	Z
21BILD	Safety Engineering in Aviation Natalia Guskova, Kate ina Grötschelová, Andrej Lališ Andrej Lališ	Z,ZK	4	2P+2C+12E	B Z	Z
21CNSS	CNS Systems Stanislav Pleninger, Jakub Steiner Stanislav Pleninger	Z,ZK	5	3P+2C+16E	B Z	Z
21LETS	Airport Petr Líka , Sébastien Lán, Petr Had, Ji í Volt, Slobodan Stoji Slobodan Stoji	Z,ZK	4	1P+2C+12E	B Z	Z
21PEKL	Principles and Models in Air Transport Economics Peter Vittek Peter Vittek	Z,ZK	5	4P+2C+16E	B Z	Z
15J2A1	Language - English 1 Barbora Horá ková, Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Marek Tome ek, Markéta Musilová,	Z	2	0P+2C+10E	B Z	Z

Characteristics of the courses of this group of Study Plan: Code=1.S.NPPL 22/23 Name=1.sem.nav.prez.PL (od) 22/23 (program PL)

11APAS	Applied Statistics	Z,ZK	4				
Descriptive statistics, data preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete variables. Regression and correlation analysis. Multivariable methods							
- multiple regression an	alysis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power analysis, preparation, processing and	d evaluation of hte	experiment.				
11MMJ	Mathematical Models and their Applications	Z,ZK	4				
System. Regression, dis	crete and logistic models. Bayesian estimation of model parameters. Parameter estimation of normal regression, discrete ar	d logistic models.	Classification				
with logistic model. One	-step and multi-step prediction with regression and discrete models. State model. State estimation. Kalman filter. Control with	regression and c	liscrete models.				
21BILD	Safety Engineering in Aviation	Z,ZK	4				
The course is focused of	n understanding the issue of safety, learning how to assess new systems in terms of safety and acquiring principles of safety	management. St	udents will learn				
explaining accidents an	d incident causes and bridge their theoretical knowledge with practical problems of air transport.						
21CNSS	CNS Systems	Z,ZK	5				
Course provides full tec	hnical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in p	perspective of futu	re development.				
21LETS	Airport	Z,ZK	4				
Methods of designing n	ew airports and developing existing ones. Connection of the airport to the surrounding infrastructure. Airport economics. Deta	ailed look at the d	evelopment of				
movement areas. Certification of airside movement areas and procedures according to EASA CS-ADR-DSN. Development planning - design, preparation and regulatory basis.							
Environmental aspects	of airport operations.						

21PEKL	Principles and Models in Air Transport Economics	Z,ZK	5
The course contains the	rline infrastructure	models, market	
structure, analyses airli	ne costs, and looks in detail at the low-cost and charter airline model. It also focuses on airline alliances, air cargo, airline strat	egies and the ecc	nomic principles
of safety and security.			
15J2A1	Language - English 1	Z	2
Presentation Skills - ex			

Code of the group: 2.S.NPPL 22/23 Name of the group: 2.sem.nav.prez.PL (od) 22/23 (program PL) Requirement credits in the group: In this group you have to gain 26 credits Requirement courses in the group: In this group you have to complete 6 courses Credits in the group: 26 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
21AFM	Air Traffic Management Terézia Pilmannová Terézia Pilmannová Jakub Kraus (Gar.)	Z,ZK	5	3P+2C+16B	L	Z
21MULD	Managerial Challenges in Air Transport Peter Vittek Peter Vittek (Gar.)	Z,ZK	5	3P+2C+14B	L	Z
21PLET	Airport Operations Sébastien Lán, Petr Had, Ji í Volt Slobodan Stoji (Gar.)	Z,ZK	5	2P+2C+12B	L	Z
21SPOL	Aircraft Technology Reliability Natalia Guskova, Kate ina Grötschelová, Old ich Štumbauer Andrej Lališ (Gar.)	Z,ZK	4	2P+1C+12B	L	Z
21PAM1	Programming and Modelling 1 Vladimír Socha, Lenka Hanáková Vladimír Socha (Gar.)	KZ	5	2P+4C+16B	L	Z
15JBA2	Language - English 2 Barbora Horá ková, Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Marek Tome ek, Markéta Musilová,	Z	2	0P+2C+10B	L	Z

Characteristics of the courses of this group of Study Plan: Code=2.S.NPPL 22/23 Name=2.sem.nav.prez.PL (d	od) 22/23 (pr	ogram PL)
21AFM Air Traffic Management	Z,ZK	5
Current ATM system and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data	exchange with n	eighboring ATM
systems. Monitoring systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB	3. ATS's - AOC's d	ata applications.
21MULD Managerial Challenges in Air Transport	Z,ZK	5
The course contains a list of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing of	operations, marke	eting context
implementation, airline network management, fleet management and revenue management. The core disciplines also include project management, of	cost management	t and project
resource planning and management.		
21PLET Airport Operations	Z,ZK	5
Planning, design and modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capa	acity. Available too	ols and practices
for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport masterplan.		
21SPOL Aircraft Technology Reliability	Z,ZK	4
Subject deals with tuition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and v	vorking of aerosp	ace engineering.
General legalities are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the	hey are practical	illustration of its
security in The Czech Police Aviation Department.		
21PAM1 Programming and Modelling 1	KZ	5
Harmonic signals, their generation. Real signals, sampling theorem, aliasing. Signal filtering. Fourier transform (FT), discrete Fourier transform (DFT)	, fast Fourier tran	sform (FFT).
Spectrum estimation, spectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear and non	-linear methods,	brightness
transforms, geometric transforms, image compression.		
15JBA2 Language - English 2	Z	2
Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.		

Code of the group: 3.S.NPPL 23/24

Name of the group: 3.sem.nav.prez.PL (od) 23/24 (program PL)

Requirement credits in the group: In this group you have to gain 26 credits Requirement courses in the group: In this group you have to complete 7 courses Credits in the group: 26

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11MMOA	Mathematical methods for data analysis Evženie Uglickich, Pavla Pecherková Pavla Pecherková Evženie Uglickich (Gar.)	Z,ZK	4	2P+2C+12B	Z	Z

				1 1		1		
21NSR	Navigation and Flight Control Systems Milan Kameník, Ladislav Capoušek, Jakub Hospodka Jakub Hospodka	Z,ZK	5	3P+2C+14B	Z	Z		
21PLDC	Air Carrier Operations Miloš Strouhal Miloš Strouhal	Z,ZK	5	3P+2C+16B	Z	Z		
21PAM2	Programming and Modelling 2 Vladimír Socha, Lenka Hanáková Vladimír Socha	KZ	5	2P+4C+16B	Z	Z		
21LIA1	Aviation Engineering English 1 Barbora Horá ková, Jitka He manová Jitka He manová	Z	3	0P+2C+8B	Z	Z		
21XNL1	Thesis seminar 1 Marta Urbanová Marta Urbanová	Z	2	0P+1C+4B	Z	z		
15JBA3	Language - English 3 Barbora Horá ková, Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Eva Rezlerová	Z	2	0P+2C+10B	Z	Z		
Characteristics of the	e courses of this group of Study Plan: Code=3.S.NPPL 23/24 Na	ame=3.sem.n	av.prez.	PL (od) 23	8/24 (prog	gram PL)		
11MMOA Ma	thematical methods for data analysis			Z	,ZK	4		
Stocastic modelling, estimat	ion, prediction, filtration, control, methods of data analysis - k-means, DBSCAN, naive	Bayes, decision t	trees, supp	ort vector ma	chine.			
21NSR Na	vigation and Flight Control Systems			Z	,ZK	5		
Navigation. Radionavigation	Satellite navigation. Flight management system. Autopilot. FMC. Practical execution of	f flight.						
21PLDC Air	Carrier Operations			Z	,ZK	5		
Mission and importance of a	ir transport. Legislation. Airlines - structure, strategy. Performances in air transport. Cos	st structure. Fuel	manageme	ent. Cargo. Air	craft mainte	nance		
(organization) and economic	s of aircraft operation. Ground handling and other services. Safety / Security / Quality	and Compliance	monitoring.	Revenue ma	nagement. A	Air transport		
and environment.								
21PAM2 Pro	ogramming and Modelling 2				ζΖ	5		
Descriptive statistics, classic	al statistical analysis. Statistical hypothesis testing. Analysis of variance (ANOVA), one	e-factor, two-facto	r ANOVA. N	lon-parametri	ic methods.	Linear		
regression. Correlation, corre	elation coefficient. Non-linear regression models, procedure for regression analysis of a	a non-linear mod	el. Basics o	f machine lea	rning. Class	ification by		
nearest neighbour method.	SVM classifiers. Decision trees.							
21LIA1 Av	iation Engineering English 1				Z	3		
Lectures include various type	es of the language exercises and are focused on the following topics - EUR-Lex and E	uropean Legislati	ion, ICAO A	nnexes and s	SARPs, AM	Cs and GMs,		
Civil Aviation Authorities, Ac	cident investigation, Aircraft Airworthiness, Aircraft documentations and manuals, Medi	ical certification,	Emergency	response pla	an.			
21XNL1 Th	esis seminar 1				Z	2		
Introduction, scientific public	ations, publications devoted to scientific writing, grey literature, difference between bac	chelor and maste	r thesis. Tin	ne manageme	ent. Formal a	and graphic		
design, mathematical typese	etting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, da	tabases, critical	work with te	ext, digital not	es, working	with notes,		
outline. Rhetorical exercises	/ presentation skills.							
15JBA3 La	nguage - English 3				Z	2		
Presentation Skills - expert t	Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement. Optional courses for certificates							
FCE, CAE.								

Code of the group: 4.S.NPPL 23/24

Name of the group: 4.sem.nav.prez.PL (od) 23/24 (program PL)

Requirement credits in the group: In this group you have to gain 24 credits

Requirement courses in the group: In this group you have to complete 9 courses

Credits in the group: 24

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
21ELEG	European Aviation Legislation Radoslav Zozu ák Peter Vittek (Gar.)	ZK	3	2P+0C+8B	L L	Z
21KST	Space Technology Jakub Hospodka, Jakub Trýb Jakub Hospodka (Gar.)	ZK	3	2P+0C+10B	L	Z
21LPZP	Air Traffic and the Environment Eva Endrizalová Lud k Be o (Gar.)	ZK	3	3P+0C+8B	L	Z
21SYMS	System Thinking Jakub Kraus Jakub Kraus (Gar.)	ZK	3	2P+0C+8B	6 L	Z
14PROM	Process Modeling Marek Kalika Marek Kalika Marek Kalika (Gar.)	KZ	2	2P+0C+8B	6 L	Z
21LIA2	Aviation Engineering English 2 Jitka He manová	KZ	3	0P+2C+8B	6 L	Z
21NTLE	New Trends in Aviation Technologies Peter Vittek Peter Vittek (Gar.)	KZ	3	3P+0C+8B	L	Z
21XNL2	Thesis Seminar 2 Vladimír Socha, Lenka Hanáková, Marta Urbanová Vladimír Socha Vladimír Socha (Gar.)	Z	2	0P+2C+6B	L	Z
15JBA4	Language - English 4 Barbora Horá ková, Jitka He manová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová	ZK	2	0P+2C+10E	6 L	Z

Characteristics of the courses of this group of Study Plan: Code=4.S.NPPL 23/24 Name=4.sem.nav.prez.PL (od) 23/24 (program PL)

21ELEG European Aviation Legislation	ZK	3
The content of the subject "European Aviation Legislation" is the legal regulation of air operation, the system and structure of the national and European	ean legal system,	the legal effects
of EU legal acts in the Czech national environment and their impact on national regulation with a focus on requirements and criteria of individual reg	ulations on aviation	on transport and
transportation.		
21KST Space Technology	ZK	3
Universe and its basic characteristics. Fundamentals of astrophysics. Kepler's laws. Solar system. Earth's and its atmosphere and outer space. Space	e transport vehic	les. Rockets and
rocket engines and their structure and operational characteristics. Space crafts and satellites, space flight. Orbital mechanics. Application of space te	chnologies for glo	obal navigation
and communication. Space exploration and piloted space flights and missions.		
21LPZP Air Traffic and the Environment	ZK	3
The course is about ecology, sustainable development, ecological stability, environmental protection and environmental legislation. It also focuses on	air traffic with res	spect to the
environment, current issues, threats and solutions.		
21SYMS System Thinking	ZK	3
System, its structure, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting,	incertainties and	arguments,
decision making under uncertainty.		
14PROM Process Modeling	KZ	2
Definition of the process, role, KPI's, areas of interest. Process Map, definition, purpose, clear examples and demonstrations, recommendations and s	tandards, SIPOC	Process model,
definition, purpose, procedures and tools, static and dynamic models. BPMN language, syntax and semantics, process flows. Implementation of practice of the second se	tical examples, A	s-ls, To-Be,
optimization and evaluation.		
21LIA2 Aviation Engineering English 2	KZ	3
Lectures include various types of the language exercises and are focused on the following topics - Aviation associations, ISAGO and IGOM, EUROC	ONTROL, Airpor	t Council
International, International Air Transport Association, Airport Engineering, Airline business, Future development in civil aviation.		
21NTLE New Trends in Aviation Technologies	KZ	3
The course includes an introduction to all the technologies that are currently important to aviation, such as new aircraft design concepts, new types of	of propulsion, and	I new types of
aviation fuels. The course also covers new types of urban mobility, virtual reality systems, biomechanical analysis. ATM technologies are another com	ponent, and the c	ourse also looks
at smart airports, the use of blockchain, and airport simulations.		
21XNL2 Thesis Seminar 2	Z	2
Selected chapters from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of	results. Graphic	design of the
work, own and adopted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetor	ical exercises / pr	esentation skills.
Specifics of state exams.		
15JBA4 Language - English 4	ZK	2
Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.C	ptional courses f	or certificates
FCE, CAE.		

Name of the block: Semestrální projekt Minimal number of credits of the block: 8 The role of the block: ZP

Code of the group: XN PL 1-4 22/23 Name of the group: Projekty nav. 1.-4.sem (od) 22/23 programu PL (PRE i KOMBI) Requirement credits in the group: In this group you have to gain 8 credits Requirement courses in the group: In this group you have to complete 4 courses Credits in the group: 8 Note on the group:

		1		.	· · · · · ·	
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11XN1	Master Project 1 Ivan Nagy	Z	2	0P+2C+4E	Z	ZP
12XN1	Master Project 1 Zuzana arská, Dagmar Ko árková, Iva Šturmová, Kristýna Neubergová, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák, Tomáš Javo ík,	Z	2	0P+2C+4E	Z	ZP
14XN1	Master Project 1	Z	2	0P+2C+4E	Z	ZP
15XN1	Master Project 1	Z	2	0P+2C+4E	Z	ZP
16XN1	Master Project 1 P emysl Toman	Z	2	0P+2C+4E	Z	ZP
17XN1	Master Project 1 Václav Baroch, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Eliška Glaserová, Rudolf F. Heidu, Tomáš Horák, Vít Janoš, Milan K íž,	Z	2	0P+2C+4E	Z	ZP
18XN1	Master Project 1 Václav Rada, Nela Kr má ová	Z	2	0P+2C+4E	Z	ZP
20XN1	Master Project 1 Ji í R ži ka	Z	2	0P+2C+4E	Z	ZP
21XN1	Master Project 1 Natalia Guskova, Andrej Lališ, Jakub Steiner, Slobodan Stoji , Peter Vittek, Terézia Pilmannová, Jakub Kraus, Vladimír Socha, Lenka Hanáková,	Z	2	0P+2C+4E	Z	ZP
22XN1	Master Project 1 Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zden k Svatý, Jakub Nová ek	Z	2	0P+2C+4E	Z	ZP
23XN1	Master Project 1	Z	2	0P+2C+4E	Z	ZP

11XN2	Master Project 2 Ivan Nagy	Z	2	0P+2C+8B	L	ZP
12XN2	Master Project 2 Zuzana arská, Dagmar Ko árková, Kristýna Neubergová, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák, Tomáš Javo ík, Pavel Purkart,	Z	2	0P+2C+8B	L	ZP
14XN2	Master Project 2 Vít Fábera, Tomáš Brandejský, Mária Jánešová, Jan Zelenka	Z	2	0P+2C+8B	L	ZP
15XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
16XN2	Master Project 2 P emysl Toman, Josef Mik	Z	2	0P+2C+8B	L	ZP
17XN2	Master Project 2 Václav Baroch, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Rudolf F. Heidu, Tomáš Horák, Vít Janoš, Milan K íž, Olga Mertlová, Vít Janoš (Gar.)	Z	2	0P+2C+8B	L	ZP
18XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
20XN2	Master Project 2 Ji í R ži ka, Patrik Horaž ovský	Z	2	0P+2C+8B	L	ZP
21XN2	Master Project 2 Natalia Guskova, Kate ina Grötschelová, Andrej Lališ, Jakub Steiner, Slobodan Stoji, Peter Vittek, Terézia Pilmannová, Jakub Kraus, Lenka Hanáková,	Z	2	0P+2C+8B	L	ZP
22XN2	Master Project 2 Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zden k Svatý, Jakub Nová ek	Z	2	0P+2C+8B	L	ZP
23XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
11XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
12XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
14XN3L	Master Project 3 Vit Fábera Vit Fábera (Gar.)	Z	2	0P+2C+8B	Z	ZP
15XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
16XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
17XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
18XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
20XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
21XN3L	Master Project 3 Natalia Guskova, Kate ina Grötschelová, Andrej Lališ, Slobodan Stoji , Peter Vittek, Terézia Pilmannová, Jakub Kraus, Vladimír Socha, Lenka Hanáková,	Z	2	0P+2C+8B	Z	ZP
22XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
23XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
11XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
12XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
14XN4L	Master Project 4 Vít Fábera, Tomáš Brandejský, Mária Jánešová, Jan Zelenka	Z	2	0P+5C+8B	L	ZP
15XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
16XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
17XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
18XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
20XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
21XN4L	Master Project 4 Natalia Guskova, Kate ina Grötschelová, Andrej Lališ, Stanislav Pleninger, Jakub Steiner, Petr Had, Ji í Volt, Slobodan Stoji, Peter Vittek,	Z	2	0P+5C+8B	L	ZP
22XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
23XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP

Characteristics of the courses of this group of Study Plan: Code=XN PL 1-4 22/23 Name=Projekty nav. 1.-4.sem (od) 22/23 programu PL (PRE i KOMBI)

11XN1	Master Project 1	Z	2
12XN1	Master Project 1	Z	2
14XN1	Master Project 1	Z	2
15XN1	Master Project 1	Z	2
16XN1	Master Project 1	Z	2
17XN1	Master Project 1	Z	2
18XN1	Master Project 1	Z	2
20XN1	Master Project 1	Z	2
21XN1	Master Project 1	Z	2
22XN1	Master Project 1	Z	2
23XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2

12XN2	Master Project 2	Z	2
14XN2	Master Project 2	Z	2
15XN2	Master Project 2	Z	2
16XN2	Master Project 2	Z	2
17XN2	Master Project 2	Z	2
18XN2	Master Project 2	Z	2
20XN2	Master Project 2	 Z	2
21XN2	Master Project 2	Z	2
22XN2	Master Project 2	Z	2
23XN2	Master Project 2	Z	2
11XN3L	Master Project 3	Z	2
12XN3L	Master Project 3	Z	2
14XN3L	Master Project 3	Z	2
15XN3L	Master Project 3	Z	2
16XN3L	Master Project 3	Z	2
17XN3L	Master Project 3	Z	2
18XN3L	Master Project 3	Z	2
20XN3L	Master Project 3	Z	2
21XN3L	Master Project 3	Z	2
22XN3L	Master Project 3	Z	2
23XN3L	Master Project 3	Z	2
11XN4L	Master Project 4	Z	2
12XN4L	Master Project 4	Z	2
14XN4L	Master Project 4	Z	2
15XN4L	Master Project 4	Z	2
16XN4L	Master Project 4	Z	2
17XN4L	Master Project 4	Z	2
18XN4L	Master Project 4	Z	2
20XN4L	Master Project 4	Z	2
21XN4L	Master Project 4	Z	2
22XN4L	Master Project 4	Z	2
23XN4L	Master Project 4	Z	2

Name of the block: Compulsory elective courses Minimal number of credits of the block: 8 The role of the block: PV

Code of the group: Y2-NPPL 22/23 Name of the group: PVP nav.prez. program PL 22/23 Requirement credits in the group: In this group you have to gain 8 credits Requirement courses in the group: In this group you have to complete 4 courses Credits in the group: 8

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
21Y2BS	Unmanned aircraft systems 2 Tomáš Tlu ho, Michal erný	KZ	2	2P+0C	L	PV
21Y2CR	CRM	KZ	2	2P+0C	L	PV
21Y2FM	Aviation Company Financial Management Radoslav Zozu ák Radoslav Zozu ák	KZ	2	2P+0C+8B	Z	PV
21Y2LS	Air Traffic Services	KZ	2	2P+0C+8B	5 L	PV
21Y2MQ	Quality Management Luboš Socha	KZ	2	2P+0C+8B	L	PV
21Y2MK	Marketing of Air Transport Peter Vittek Peter Vittek	KZ	2	2P+0C+8B	Z	PV
22Y2MN	Methods and Procedures of Aircraft Accident Investigation Michal Frydrýn, Karel Mündel Karel Mündel (Gar.)	KZ	2	2P+0C	L	PV
21Y2MC	CNS Systems Modelling Stanislav Pleninger Stanislav Pleninger	KZ	2	2P+0C+8B	Z	PV
21Y2PP	Law and Operation in Air Transport Radoslav Zozu ák	KZ	2	2P+0C+8B	L	PV

21Y2UL	Aircraft Maintenance Tomáš Parýzek	KZ	2	2P+0C+8B	L	PV
14Y2UI	Artificial Intelligence	KZ	2	2P+0C+8B	Z,L	PV
21Y2VA	Selected Chapters of Aerodynamics	KZ	2	2P+0C+8B	L	PV
15Y2ZA	Basic Principles of English Academic Writing and Abstract in English	KZ	2	2P+0C	Z	PV
Characteristics of the	courses of this group of Study Plan: Code=Y2-NPPL 22/23 Na	me=PVP na	/.prez. p	rogram PL	22/23	
21Y2BS Un	manned aircraft systems 2				KZ	2
Modern trends in unmanned	aircraft development. Use of unmanned aircraft. Managerial activities related to the ope	ration of unmanne	ed aircraft.	Flights beyond	the applic	able legislation.
21Y2CR CR	M				κz	2
Introduction to CRM. Analysi	s of air accidents. Human factor. Error. Historical development of CRM. Health and fitn	ess. Stress and it	ts effect or	the human bo	ody Fatigue	e Sleep &
Vigilance. Information Proces	ssing. Situational Awareness. Workload Management. Decision Making. Communication	on. Leadership &a	amp; Team	Behaviour. Au	tomation.	
21Y2FM Avi	ation Company Financial Management				κz	2
Theories of corporate finance	e - financial statements, budget, forecast. Financial policy of the company. Financial re	sources - long-te	rm financia	al resources, c	lepreciation	n, retained
earnings, shares, bonds, loan	ns, leasing, capital. Financial and economic analysis of the company - structure and c	ontent.				
21Y2LS Air	Traffic Services				κz	2
	Republic and other countries. Introduction and description of ATS units in Czech Repu	blic. Practical exa	amples of T	WR, APP a A	CC control	History of ATS
at USA and Czechoslovakia.	ATS - Model of financing. Training Systém of Air Traffic Controllers. Future developme	nt of ATS.				
21Y2MQ Qu	ality Management				κz	2
History, basic definition. Pion	eers in the field of quality. International quality organisations and quality promotion in	the Czech Repub	lic. Quality	management	system. E	nvironmental
management systems. Integr	ated management systems. Risk management in the context of the requirements of ISC	O standards. Sect	toral quality	/ management	t systems. (Comprehensive
quality management, excelle	nce models and corporate social responsibility. Quality audits.					
21Y2MK Ma	rketing of Air Transport				κz	2
The content of the course "M	arketing in air transport" is the management of activities and processes using available	le marketing tools	and proce	esses for analy	/sis, strateg	gy development
	of goods and services in the aviation industry. In addition to the theoretical foundation	s of marketing, th	ne lectures	present syste	ms of mark	et, competition
and product analysis, creatio	n of marketing strategies and planning.					
22Y2MN Me	thods and Procedures of Aircraft Accident Investigation				KZ	2
Expanding knowledge of pra-	ctical procedures in aircraft accident investigation. Equipment and organisation of the	investigation tear	n. Example	es of aircraft a	ccident inve	estigations in
the Czech Republic and abro	ad and analysis of published final reports. Examples of the preparation of the final rep	port of an air acci	dent inves	igation.		
21Y2MC CN	S Systems Modelling				KZ	2
The course is designed as a	set of model tasks in the field of communication navigation and surveillance systems i	n aviation, addres	ssed using	mathematical	approache	es and software
tools. A large part is devoted	to air targets tracking, measurement-to-track association, track filtering and multisens	or tracking.				
21Y2PP Lav	v and Operation in Air Transport				KZ	2
Development of aviation law.	International conventions on civil aviation. International organisations and including of	f the Czech Repu	blic in the	se organisation	ns. EU legis	slation and civil
	dministration and state supervision in matters of civil aviation, in accordance with Act	No. 49/1997 Col.	Facilitation	n. Responsibili	ties of air c	arriers for
	rgo. The safe transport of dangerous goods.					
-	craft Maintenance			1	KZ	2
	nisations (AMOs), Continuing Airworthiness Management Organisations (CAMOs), Ma					
	ons for Continued Airworthiness) instructions, aircraft release to service procedure, ma	aintenance progra	ammes and	d scheduling, r	nodificatior	ns and general
	e of gravity and weights, human factors in aircraft maintenance.					
	ificial Intelligence			1	KZ	2
	e, knowledge, its representation including frames, state space search, constraints, ge	netic algorithms,	machine le		, in the second s	
	ected Chapters of Aerodynamics			1	KZ	2
	ses, atmosphere, aeronautical applications of external and internal aerodynamics, com	•				•
	ngs and profiles, vertical and oblique shock wave, energy losses, aeronautical aerody	namic profiles of	wings, pro	pellers, blades	s gratings, l	ift, drag, polar,
viscosity, laminar and turbule						
	sic Principles of English Academic Writing and Abstract in English				KZ	2
Theory, creating a phrasal ba	ank according to students' specialisations, rhetorical analysis or texts/abstracts, draftin	ig an abstract, pro	oviding effe	ective feedbac	k.	

List of courses of this pass:

Code	Name of the course	Completion	Credits
11APAS	Applied Statistics	Z,ZK	4
Descriptive statistic	s, data preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete variables. Regression and correlation a	analysis. Multivarial	ole methods
 multiple regress 	ion analysis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power analysis, preparation, processing and	evaluation of hte ex	periment.
11MMJ	Mathematical Models and their Applications	Z,ZK	4
System. Regression	on, discrete and logistic models. Bayesian estimation of model parameters. Parameter estimation of normal regression, discrete and	logistic models. Cla	assification
with logistic model.	One-step and multi-step prediction with regression and discrete models. State model. State estimation. Kalman filter. Control with re	gression and discr	ete models.
11MMOA	Mathematical methods for data analysis	Z,ZK	4
Stocastic	modelling, estimation, prediction, filtration, control, methods of data analysis - k-means, DBSCAN, naive Bayes, decision trees, sup	port vector machin	e.
11XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
11XN3L	Master Project 3	Z	2
11XN4L	Master Project 4	Z	2

2	Z	12XN1
2	Z	12XN2
2	Z	12XN3L
2	Z	12XN4L
2	KZ	14PROM
	andards, SIPOC. Pr	
s, As-Is, To-Be,	actical examples, A	definition, purpo
2	Z	14XN1
2	Z	14XN2
2	Z	14XN3L
2	Z	14XN4L
2	KZ	14Y2UI
j. '	achine learning.	Hi
2	Z k engagement.	15J2A1
2	Z	15JBA2
	k engagement.	
2	Z	15JBA3
	Dptional courses for	
	71/	
2 c for cortificator	Dptional courses for	15JBA4 Procontation Skil
s for certificates	optional courses to	Presentation Ski
2	Z	15XN1
2	Z	15XN1
	Z	15XN2
2		
2	Z	15XN4L
2	G effective feedback	15Y2ZA
	-	16XN1
2	Z	
2	Z	16XN2
2	Z	16XN3L
2	Z	16XN4L
2	Z	17XN1
2	Z	17XN2
2	Z	17XN3L
2	Z	17XN4L
2	Z	18XN1
2	Z	18XN2
2	Z	18XN3L
2	Z	18XN4L
2	Z	20XN1
2	Z	20XN2
2	Z	20XN3L
2	Z	20XN4L
5	Z,ZK	21AFM
	exchange with neig	-
	ATS's - AOC's data	ystems. Monitorin
	Z,ZK	21BILD
Students will lear	management. Stude	he course is focu
5	t. Z,ZK	21CNSS
	erspective of future	
3	-	
n, the legal effect	an legal system, the	he content of the
3	ZK	21KST
global navigatio	chnologies for glob	ocket engines an
, A	7 71/	
		-
tion t icles. globa	lations on aviation	of EU legal acts in 21KST Universe and its b rocket engines an 21LETS Methods of desig

21LIA1	Aviation Engineering English 1	Z	3
Lectures include v	arious types of the language exercises and are focused on the following topics - EUR-Lex and European Legislation, ICAO Annexes	and SARPs, AMC	s and GMs,
	iation Authorities, Accident investigation, Aircraft Airworthiness, Aircraft documentations and manuals, Medical certification, Emerger	,	
21LIA2	Aviation Engineering English 2	KZ	3
Lectures includ	e various types of the language exercises and are focused on the following topics - Aviation associations, ISAGO and IGOM, EURO International, International Air Transport Association, Airport Engineering, Airline business, Future development in civil aviati		t Council
21LPZP	Air Traffic and the Environment	ZK	3
	out ecology, sustainable development, ecological stability, environmental protection and environmental legislation. It also focuses on	1	
	environment, current issues, threats and solutions.		
21MULD	Managerial Challenges in Air Transport	Z,ZK	5
The course conta	ins a list of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing o	perations, marketi	ng context
implementation, a	airline network management, fleet management and revenue management. The core disciplines also include project management, c	ost management a	ind project
041100	resource planning and management.		
21NSR	Navigation and Flight Control Systems Navigation. Radionavigation. Satellite navigation. Flight management system. Autopilot. FMC. Practical execution of flight.	Z,ZK	5
21NTLE	New Trends in Aviation Technologies	KZ	3
	es an introduction to all the technologies that are currently important to aviation, such as new aircraft design concepts, new types of	1	-
aviation fuels. The o	course also covers new types of urban mobility, virtual reality systems, biomechanical analysis. ATM technologies are another compor	nent, and the cours	e also looks
	at smart airports, the use of blockchain, and airport simulations.	1	
21PAM1	Programming and Modelling 1	KZ	5
	, their generation. Real signals, sampling theorem, aliasing. Signal filtering. Fourier transform (FT), discrete Fourier transform (DFT),		
Spectrum estimation	ation, spectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear and non transforms, geometric transforms, image compression.	-iinear methods, b	rightness
21PAM2	Programming and Modelling 2	KZ	5
	istics, classical statistical analysis. Statistical hypothesis testing. Analysis of variance (ANOVA), one-factor, two-factor ANOVA. Non-p		
	ation, correlation coefficient. Non-linear regression models, procedure for regression analysis of a non-linear model. Basics of machi-		
0	nearest neighbour method. SVM classifiers. Decision trees.	U	,
21PEKL	Principles and Models in Air Transport Economics	Z,ZK	5
The course contain	s the most important and typical models on which the economics of air transport is based. It covers the principles of regulation, airline	infrastructure mo	dels, market
structure, analyses	airline costs, and looks in detail at the low-cost and charter airline model. It also focuses on airline alliances, air cargo, airline strategie	es and the econom	nic principles
	of safety and security.	Z,ZK	E
21PLDC Mission and im	Air Carrier Operations portance of air transport. Legislation. Airlines - structure, strategy. Performances in air transport. Cost structure. Fuel management. C		5
	l economics of aircraft operation. Ground handling and other services. Safety / Security / Quality and Compliance monitoring. Revenu	-	
(* 5**** , ***	and environment.		
21PLET	Airport Operations	Z,ZK	5
			5
Planning, design ar	nd modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit		-
		y. Available tools a erplan.	-
21SPOL	d modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability	y. Available tools a erplan. Z,ZK	nd practices
21SPOL Subject deals with t	d modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor	y. Available tools a erplan. Z,ZK king of aerospace	nd practices 4 engineering.
21SPOL Subject deals with t	d modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the	y. Available tools a erplan. Z,ZK king of aerospace	nd practices 4 engineering.
21SPOL Subject deals with t General legalities a	d modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department.	y. Available tools a erplan. Z,ZK king of aerospace o y are practical illus	nd practices 4 engineering. tration of its
21SPOL Subject deals with t General legalities a 21SYMS	d modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the	y. Available tools a erplan. Z,ZK king of aerospace y are practical illus ZK	A engineering. tration of its
21SPOL Subject deals with t General legalities a 21SYMS	nd modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking	y. Available tools a erplan. Z,ZK king of aerospace y are practical illus ZK	A engineering. tration of its
21SPOL Subject deals with t General legalities a 21SYMS	nd modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u	y. Available tools a erplan. Z,ZK king of aerospace y are practical illus ZK	A engineering. tration of its
21SPOL Subject deals with t General legalities a 21SYMS System, its struct	In modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty.	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an	A practices 4 engineering. tration of its 3 rguments,
21SPOL Subject deals with t General legalities a 21SYMS System, its struc 21XN1	In modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z	A practices 4 engineering. tration of its 3 rguments, 2
21SPOL Subject deals with t General legalities a 21SYMS System, its struc 21XN1 21XN2 21XN2 21XN3L	In modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 3	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z	A practices 4 engineering. tration of its 3 rguments, 2 2
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN3L 21XN3L 21XN4L	In modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and au Z Z	A practices 4 engineering. tration of its 7 guments, 2 2 2 2
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN3L 21XN3L 21XN4L 21XNL1	In modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 3 Master Project 4	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z Z Z	A practices 4 engineering. tration of its 7 guments, 2 2 2 2 2 2 2 2 2 2
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN3L 21XN4L 21XN4L 21XNL1 Introduction, scier	Ind modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time mana- tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z Z agement. Formal a	A practices 4 engineering. tration of its 7 guments, 2 2 2 2 2 2 2 2 1 2 1 2 1 2 1 2 1 2 1
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN3L 21XN3L 21XN4L 21XN4L 21XNL1 Introduction, scier design, mathema	Ind modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time mana tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi outline. Rhetorical exercises / presentation skills.	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z agement. Formal a tal notes, working v	A practices 4 engineering. tration of its 3 rguments, 2 2 2 2 2 2 2 2 1 2 1 2 1 2 1 3 rguments,
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN3L 21XN4L 21XN4L 21XNL1 Introduction, scier design, mathema 21XNL2	Ind modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capaciti for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Thesis seminar 1 ntific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time mana tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi outline. Rhetorical exercises / presentation skills. Thesis Seminar 2	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z agement. Formal a tal notes, working v	A practices 4 engineering. tration of its 7 guments, 2 2 2 2 2 2 2 2 2 2 3 4 2 2 2 3 4 3 rguments, 2 2 2 2 2 3 3 7 2 2 2 3 2 2 2 3 3 2 2 2 2
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN3L 21XN4L 21XN4L 21XN4L 1ntroduction, scier design, mathema 21XNL2 Selected chapters	Ind modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Thesis seminar 1 ntific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time manu- tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of a form the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of a form the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of a form the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of a form the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of a form the structure. PRISMA and meta-analysis methods. Citation form for the structure. PRISMA and meta-analysis methods. Citati	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z agement. Formal a tal notes, working v Z esults. Graphic de	A practices 4 engineering. tration of its 7 guments, 2 2 2 2 2 2 1 2 2 2 1 2 2 2 2 3 rguments, 2 2 2 3 rguments, 2 2 2 3 rguments, 4 2 2 2 3 rguments, 5 2 2 2 3 rguments, 5 2 2 2 3 rguments, 5 2 2 2 3 rguments, 5 2 2 2 3 rguments, 5 2 2 2 3 rguments, 5 2 2 2 3 rguments, 5 2 2 2 2 2 3 rguments, 5 2 2 2 2 2 2 3 rguments, 5 2 2 2 2 3 rguments, 5 2 2 2 2 2 2 2 2 2 2 2 2 2
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN3L 21XN4L 21XN4L 21XN4L 1ntroduction, scier design, mathema 21XNL2 Selected chapters	Ind modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time man tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of poted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorica	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z agement. Formal a tal notes, working v Z esults. Graphic de	A practices 4 engineering. tration of its 7 guments, 2 2 2 2 2 2 1 2 2 2 1 2 2 2 2 3 rguments, 2 2 2 3 rguments, 2 2 2 3 rguments, 4 2 2 2 3 rguments, 5 2 2 2 3 rguments, 5 2 2 2 3 rguments, 5 2 2 2 3 rguments, 5 2 2 2 3 rguments, 5 2 2 2 3 rguments, 5 2 2 2 3 rguments, 5 2 2 2 2 2 3 rguments, 5 2 2 2 2 2 2 3 rguments, 5 2 2 2 2 3 rguments, 5 2 2 2 2 2 2 2 2 2 2 2 2 2
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN2 21XN3L 21XN4L 21XN4L 21XNL1 Introduction, scier design, mathema 21XNL2 Selected chapters work, own and adop	Ind modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time man tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of to toted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams.	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z agement. Formal a tal notes, working of Z esults. Graphic de exercises / preser	A practices 4 engineering. tration of its 3 rguments, 2 2 2 2 2 2 1 2 2 2 3 rgunents, 2 2 2 3 rgunents, 2 2 2 3 rgunents, 4 2 2 2 2 3 rgunents, 5 2 2 2 3 rgunents, 5 2 2 2 3 rgunents, 5 2 2 2 2 3 rgunents, 5 2 2 2 2 3 rgunents, 5 2 2 2 2 2 3 rgunents, 5 5 5 5 5 5 5 5 5 5 5 5 5
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN3L 21XN4L 21XN4L 21XNL1 Introduction, scier design, mathema 21XNL2 Selected chapters work, own and adop 21Y2BS	Ind modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time man tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of poted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorica	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z agement. Formal a tal notes, working v Z esults. Graphic de exercises / preser	A practices 4 engineering. tration of its 3 rguments, 2 2 2 2 2 2 1 2 2 2 1 2 3 rguments, 2 2 2 2 3 rgunents, 2 2 2 3 rgunents, 4 2 2 2 2 2 3 rgunents, 5 2 2 2 2 2 2 3 rgunents, 5 2 2 2 2 2 2 2 2 2 2 2 2 2
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN3L 21XN4L 21XN4L 21XNL1 Introduction, scier design, mathema 21XNL2 Selected chapters work, own and adop 21Y2BS	ad modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 2 Master Project 4 Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time man- tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of to be graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Unmanned aircraft systems 2	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z agement. Formal a tal notes, working v Z esults. Graphic de exercises / preser	A practices 4 engineering. tration of its 3 rguments, 2 2 2 2 2 2 1 2 2 2 1 2 3 rguments, 2 2 2 2 3 rgunents, 2 2 2 3 rgunents, 4 2 2 2 2 2 3 rgunents, 5 2 2 2 2 2 2 3 rgunents, 5 2 2 2 2 2 2 2 2 2 2 2 2 2
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN1 21XN2 21XN4L 21XNL1 Introduction, scier design, mathema 21XNL2 Selected chapters work, own and adop 21Y2BS Modern trends in ur 21Y2CR	ad modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time man- tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of <i>n</i> toted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Unmanned aircraft systems 2 manned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights be	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z agement. Formal a tal notes, working of esults. Graphic de exercises / preser KZ yond the applicable KZ	A practices 4 engineering. tration of its 3 rguments, 2 2 2 2 2 2 1 2 2 1 2 1 2 1 2 1 2 1 2
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN3L 21XN4L 21XN4L 21XNL1 Introduction, scier design, mathema 21XNL2 Selected chapters work, own and adop 21Y2BS Modern trends in ur 21Y2CR Introduction to CRI	ad modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 4 Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time man- tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of a Specifics of state exams. Unmanned aircraft systems 2 manned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights be CRM	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z agement. Formal a tal notes, working v Z esults. Graphic de exercises / preser KZ yond the applicable KZ an body. Fatigue S	A practices 4 engineering. tration of its 3 rguments, 2 2 2 2 2 2 2 2 2 2 3 2 3 3 3 4 2 2 4 3 4 2 4 4 4 4
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN4L 21XN4L 21XN4L 21XN4L 1ntroduction, scier design, mathema 21XNL2 Selected chapters work, own and adop 21Y2BS Modern trends in ur 21Y2CR Introduction to CRI Vigilance. I 21Y2FM	ad modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (not failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Thesis seminar 1 tiffic publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time man tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of r toted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Unmanned aircraft systems 2 manned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights be CRM M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the hum nformation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & amp; Team E Aviation Company Financial Management	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z agement. Formal a tal notes, working of esults. Graphic de esults. Graphic de exercises / preser KZ yond the applicable KZ an body. Fatigue S Sehaviour. Automat	A practices 4 engineering. tration of its 3 rguments, 2 2 2 2 2 2 2 2 3 2 2 3 2 3 3 3 4 2 2 3 3 4 2 2 3 4 2 2 3 4 2 2 3 4 2 2 3 4 2 2 3 4 2 2 3 4 2 2 3 4 2 2 3 4 2 3 4 2 3 4 2 3 4 2 3 4 2 3 4 2 3 4 2 3 4 2 3 4 4 2 3 4 4 4 4
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN4L 21XN4L 21XN4L 21XN4L 1ntroduction, scier design, mathema 21XNL2 Selected chapters work, own and adop 21Y2BS Modern trends in ur 21Y2CR Introduction to CRI Vigilance. I 21Y2FM	ad modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 4 Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time man- tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of r boted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Unmanned aircraft systems 2 manned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights be CRM M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the hum nformation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & amp. Team E Aviation Company Financial Management.	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z agement. Formal a tal notes, working of esults. Graphic de exercises / preser KZ yond the applicable KZ an body. Fatigue S behaviour. Automat KZ urces, depreciation	A practices 4 engineering. tration of its 3 rguments, 2 2 2 2 2 2 2 2 3 2 2 3 2 3 3 3 4 2 2 3 3 4 2 2 3 4 2 2 3 4 2 2 3 4 2 2 3 4 2 2 3 4 2 2 3 4 2 2 3 4 2 2 3 4 2 3 4 2 3 4 2 3 4 2 3 4 2 3 4 2 3 4 2 3 4 2 3 4 4 2 3 4 4 4 4
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN3L 21XN4L 21XN4L 21XN4L 21XNL1 Introduction, scier design, mathema 21XNL2 Selected chapters work, own and adop 21Y2BS Modern trends in ur 21Y2CR Introduction to CRI Vigilance. I 21Y2FM Theories of corp	ad modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time man- tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 sfrom the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of to toted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Unmanned aircraft systems 2 manned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights be CRM M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the hum nformation Processing. Situational Awareness. Workload Managernet. Decision Making. Communication. Leadership & Amp, Team E Aviation Company Financial Management orate finance - financial statem	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z agement. Formal a tal notes, working of esults. Graphic de exercises / preser KZ yond the applicable KZ an body. Fatigue S behaviour. Automat KZ urces, depreciation	A practices 4 engineering. tration of its 3 rguments, 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN2 21XN4L 21XN4L 21XNL1 Introduction, scier design, mathema 21XNL2 Selected chapters work, own and adop 21Y2BS Modern trends in un 21Y2CR Introduction to CRI Vigilance. I 21Y2FM Theories of corp 21Y2LS	ad modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor there in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 4 Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time man- tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of in tead graphics. Ethical principles in scientific writh, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Unmanned aircraft systems 2 manned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights be CRM M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the hum nformation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership &, Team E Aviation Company Financial Management oreate financial statements, budget, forecast.	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z agement. Formal a tal notes, working of esults. Graphic de exercises / preser KZ yond the applicable KZ an body. Fatigue S behaviour. Automat KZ	A practices 4 engineering. tration of its 3 rguments, 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN2 21XN4L 21XN4L 21XNL1 Introduction, scier design, mathema 21XNL2 Selected chapters work, own and adop 21Y2BS Modern trends in un 21Y2CR Introduction to CRI Vigilance. I 21Y2FM Theories of corp 21Y2LS	ad modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 4 Thesis seminar 1 trific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time man tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of to ted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical specifics of state exams. Unmanned aircraft systems 2 manned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights be CRM A. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the hum formation Processing. Situational Awareness. Workload Management Decision Making. Communication. Leadership & amp; Team E Aviation Company Financial Management arrings, shares, bonds, loans, leasing, capital. Fin	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z agement. Formal a tal notes, working of esults. Graphic de exercises / preser KZ yond the applicable KZ an body. Fatigue S behaviour. Automat KZ ar ACC control. Hi	A practices 4 engineering. tration of its 3 rguments, 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN2 21XN4L 21XN4L 21XNL1 Introduction, scier design, mathema 21XNL2 Selected chapters work, own and adop 21Y2BS Modern trends in ur 21Y2CR Introduction to CRI Vigilance. I 21Y2FM Theories of corp 21Y2LS Airspace structure	ad modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 2 Master Project 4 Thesis seminar 1 tiffic publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time man- tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 for the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of r ted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Unmanned aircraft systems 2 manned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights be cRM M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the hum nformation Processing. Situational Awareness. Workload Management Decision Making. Communication. Leadership & Team E Aviation Company Financial Managgement oreat finance - financial statements,	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z Z agement. Formal a tal notes, working of esults. Graphic de exercises / preser KZ yond the applicable KZ an body. Fatigue S behaviour. Automat KZ urces, depreciation KZ a ACC control. Hi S.	A practices 4 engineering. tration of its 3 rguments, 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
21SPOL Subject deals with t General legalities a 21SYMS System, its struct 21XN1 21XN2 21XN2 21XN4L 21XN4L 21XNL1 Introduction, scier design, mathema 21XNL2 Selected chapters work, own and adop 21Y2BS Modern trends in ur 21Y2CR Introduction to CRI Vigilance. I 21Y2FM Theories of corp 21Y2LS Airspace structure 21Y2MC	ad modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast Aircraft Technology Reliability uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the security in The Czech Police Aviation Department. System Thinking ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty. Master Project 1 Master Project 2 Master Project 4 Thesis seminar 1 trific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time man tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digi outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of noted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical specifics of state exams. Unmanned aircraft systems 2 manned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights be CRM A. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the hum formation Processing. Situational Awareness. Workload Management Decision Making. Communication. Leadership & amp; Team E Aviation Company Financial Management orate finance - financial statements, budget, forecas	y. Available tools a erplan. Z,ZK king of aerospace of y are practical illus ZK ncertainties and an Z Z Z agement. Formal a tal notes, working of esults. Graphic de exercises / preser KZ yond the applicable KZ an body. Fatigue S behaviour. Automat KZ urces, depreciation KZ a ACC control. Hi S. KZ	A engineering. tration of its 3 rguments, 2 2 2 2 2 2 2 2 2 3 rguments, 2 2 2 2 3 2 2 sign of the tation skills. 2 elegislation. 2 3 2 elege & amp; tion. 2 3 2 story of ATS 2 2 2 2 3 2 3 2 3 4 3 4 3 4 5 4 5 4 5

21Y2MK	Marketing of Air Transport	KZ	2
The content of the cours	se "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for	analysis, strategy	developmer
nd implementation of s	sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures present	systems of marke	, competitio
	and product analysis, creation of marketing strategies and planning.		
21Y2MQ	Quality Management	KZ	2
	n. Pioneers in the field of quality. International quality organisations and quality promotion in the Czech Republic. Quality manag		
nanagement systems. I	Integrated management systems. Risk management in the context of the requirements of ISO standards. Sectoral quality manage	ement systems. Co	mprehensiv
	quality management, excellence models and corporate social responsibility. Quality audits.	-	
21Y2PP	Law and Operation in Air Transport	KZ	2
•	n law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organi	•	
aviation. Execution of	f state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Resp	ponsibilities of air	carriers for
	passengers, luggage and cargo. The safe transport of dangerous goods.		1
21Y2UL	Aircraft Maintenance	KZ	2
	Organisations (AMOs), Continuing Airworthiness Management Organisations (CAMOs), Maintenance Training Organisations (M		
and additional ICA (Inst	tructions for Continued Airworthiness) instructions, aircraft release to service procedure, maintenance programmes and schedu	iling, modifications	and generation
	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance.		
21Y2VA	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance. Selected Chapters of Aerodynamics	KZ	2
21Y2VA	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance. Selected Chapters of Aerodynamics eal gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzles a	KZ And drive nozzles,	2 2 2
21Y2VA	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance. Selected Chapters of Aerodynamics eal gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzles a cal wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, propellers, b	KZ And drive nozzles,	2 compressib
21Y2VA Physical properties of re external flow, supercritic	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance. Selected Chapters of Aerodynamics eal gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzles a cal wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, propellers, to viscosity, laminar and turbulent flow, boundary layer.	KZ and drive nozzles, plades gratings, lif	2 compressibl
21Y2VA Physical properties of re external flow, supercritic 22XN1	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance. Selected Chapters of Aerodynamics eal gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzles a cal wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, propellers, to viscosity, laminar and turbulent flow, boundary layer. Master Project 1	KZ and drive nozzles, plades gratings, lif	2 compressibl , drag, pola
21Y2VA Physical properties of re external flow, supercritic	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance. Selected Chapters of Aerodynamics eal gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzles a cal wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, propellers, to viscosity, laminar and turbulent flow, boundary layer.	KZ and drive nozzles, plades gratings, lif	2 compressib
21Y2VA Physical properties of re external flow, supercritic 22XN1	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance. Selected Chapters of Aerodynamics eal gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzles a cal wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, propellers, to viscosity, laminar and turbulent flow, boundary layer. Master Project 1	KZ and drive nozzles, plades gratings, lif	2 compressib , drag, pola
21Y2VA hysical properties of re external flow, supercritic 22XN1 22XN2	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance. Selected Chapters of Aerodynamics al gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzles a cal wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, propellers, to viscosity, laminar and turbulent flow, boundary layer. Master Project 1 Master Project 2 Master Project 3	KZ and drive nozzles, plades gratings, lif	2 compressib c, drag, pola
21Y2VA hysical properties of re external flow, supercritic 22XN1 22XN2 22XN3L	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance. Selected Chapters of Aerodynamics al gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzles a cal wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, propellers, b viscosity, laminar and turbulent flow, boundary layer. Master Project 1 Master Project 2 Master Project 3 Master Project 4	KZ and drive nozzles, plades gratings, lif	2 compressib c, drag, pola 2 2 2
21Y2VA Physical properties of reexternal flow, supercritic 22XN1 22XN2 22XN3L 22XN4L 22Y2MN	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance. Selected Chapters of Aerodynamics al gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzles a cal wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, propellers, to viscosity, laminar and turbulent flow, boundary layer. Master Project 1 Master Project 2 Master Project 3	KZ and drive nozzles, plades gratings, lif Z Z Z KZ	2 compressib c, drag, pola 2 2 2 2 2 2 2 2 2 2 2 2
21Y2VA hysical properties of reixternal flow, supercritic 22XN1 22XN2 22XN3L 22XN4L 22Y2MN Expanding knowledge	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance. Selected Chapters of Aerodynamics eal gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzles a cal wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, propellers, b viscosity, laminar and turbulent flow, boundary layer. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Methods and Procedures of Aircraft Accident Investigation	KZ and drive nozzles, plades gratings, lif Z Z Z KZ craft accident inve	2 compressib c, drag, pola 2 2 2 2 2 2 2 2 2 2 2 2
21Y2VA Physical properties of reexternal flow, supercritic 22XN1 22XN2 22XN3L 22XN4L 22Y2MN Expanding knowledge	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance. Selected Chapters of Aerodynamics eal gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzles a cal wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, propellers, t viscosity, laminar and turbulent flow, boundary layer. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Methods and Procedures of Aircraft Accident Investigation of practical procedures in aircraft accident investigation. Equipment and organisation of the investigation team. Examples of air	KZ and drive nozzles, plades gratings, lif Z Z Z KZ craft accident inve	2 compressib c, drag, pola 2 2 2 2 2 2 2 2 2 2 2 2
21Y2VA Physical properties of reexternal flow, supercritic 22XN1 22XN2 22XN3L 22XN4L 22Y2MN Expanding knowledge the Cze	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance. Selected Chapters of Aerodynamics eal gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzles a cal wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, propellers, t viscosity, laminar and turbulent flow, boundary layer. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Methods and Procedures of Aircraft Accident Investigation team. Examples of air ech Republic and abroad and analysis of published final reports. Examples of the preparation of the final report of an air accider Master Project 1	KZ and drive nozzles, plades gratings, lif Z Z Z KZ craft accident investigation.	2 compressib c, drag, pola 2 2 2 2 2 2 2 2 2 2 5 tigations ir
21Y2VA Physical properties of re external flow, supercritic 22XN1 22XN2 22XN3L 22XN4L 22Y2MN Expanding knowledge the Cze 23XN1	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance. Selected Chapters of Aerodynamics eal gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzles a cal wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, propellers, b viscosity, laminar and turbulent flow, boundary layer. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Methods and Procedures of Aircraft Accident Investigation team. Examples of air ach Republic and abroad and analysis of published final reports. Examples of the preparation of the final report of an air accider	KZ and drive nozzles, blades gratings, lif Z Z Z Z KZ craft accident invent investigation. Z	2 compressib c, drag, pola 2 2 2 2 2 2 5 tigations ir 2

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2024-05-20, time 05:25.